

# CSCI 3308: 203-4

# Sports Stats Master

[sportsstatsmaster.com](https://sportsstatsmaster.com)

Dumpster Devs:

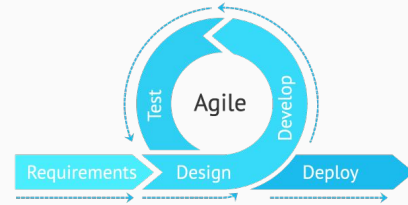
David Dayan, Zoe Stewart, John Lee, Quinn Stone,  
Makayla Johnson, Mitchell Larocque

# Goal

To create a website that makes accessing and viewing sports statistics more simple and easy.

# Project Management Tools & Methodologies

Jira: 1/5, Project  
Management and Tracking



Agile method 4/5,  
Development  
Process



VS Code: 5/5, IDE  
and coding  
environment

Visual Studio Code

Github 5/5, Version  
Control and code  
review/management



# Technologies used



Ranking: 5

Flask - Backend web framework in Python



Ranking: 5

SQLite - Database/DB management



Ranking: 5

HTML/CSS/Bootstrap/JS - frontend



Ranking: 5

Pandas - Data management



Ranking: 5

Chart.js - Javascript library for data visualization



Ranking: 5

PyUnit - Unit Testing



Ranking: 5

Sport Reference: API for Statistics



Ranking: 2

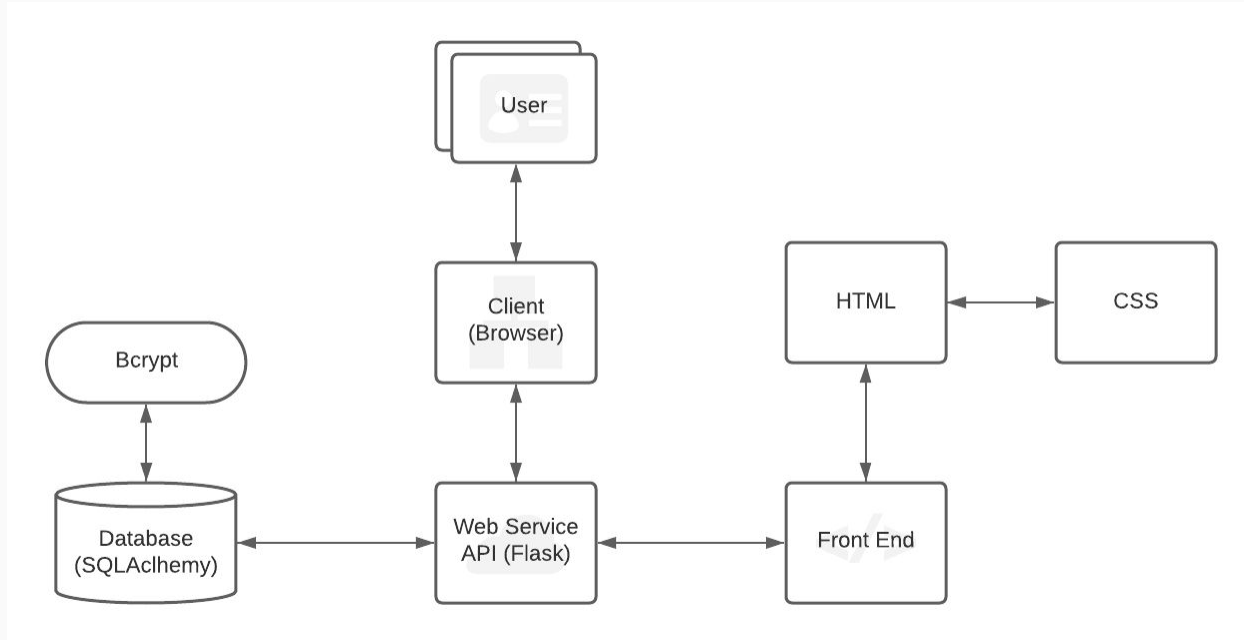
Localhost: Testing & Usage

# Expected Tools: For Future Features

- Heroku - Website Hosting
- Gunicorn - Python Web Server Gateway
- Flask-specific plugins: pyChart.JS



# Architecture Diagram



# Functionalities

Profile Creation

Pull and Display Data

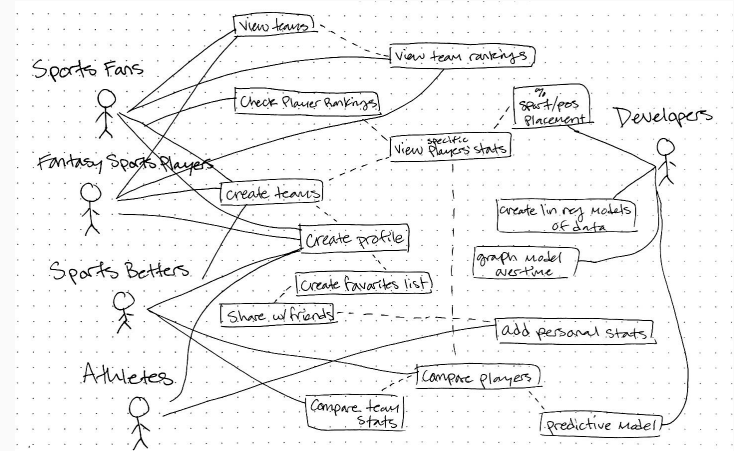
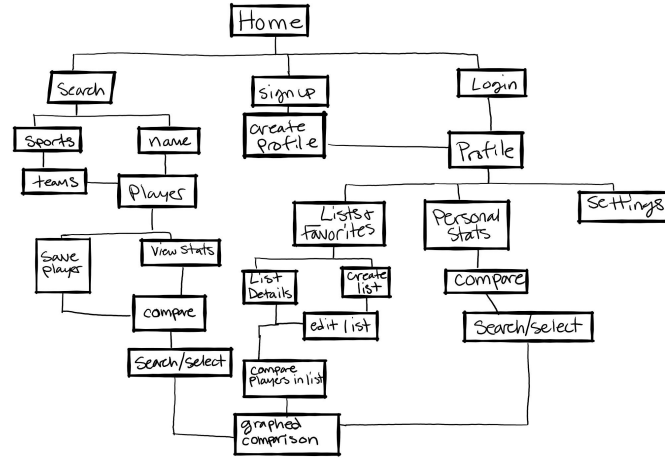
Download Sports Data

Compare/Visualize Data

Search for Specific Player Info

Share and Browse Data/Graphs

## Project Map



# Challenges: Changed Project Scope

- Reading CSV files into the database and accessing certain queries through an ODBC Driver
  - Instead wrote a python script to read in the CSV to write an HTML table with the proper information
- Getting valid data from the library, passing to HTML from Flask.
- Integration of Stack
  - Sending JSON Data and testing different data format to send to client-side.
- Dynamic Form Dropdown and Search
  - Slower performance--We had to determine if we wanted to use database or API calls when getting player names, we decided on database calls for team names and API calls for player names.
- Database Interface Usage and Many-to-one downloads to single user relationship



# Demo



# Further Improvement and Q&A

